



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference NSK2629PCT	FOR FURTHER ACTION	IER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/JP2003/011551	International filing date (a 10 September 2003		Priority date (day/month/year) 13 September 2002 (13.09.2002)				
International Patent Classification (IPC) or r B62D 1/20, F16C 29/04, 29/12,		PC .					
Applicant NSK LTD.							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of							
These annexes consist of a total of sheets. 3. This report contains indications relating to the following items:							
Basis of the report Priority							
Date of submission of the demand 28 November 2003 (28.11.2003)		Date of completion of this report 31 March 2004 (31.03.2004)					
Name and mailing address of the IPEA/JP		Authorized officer					
Facsimile No		Telephone No.					

Translation



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ernational application No.

PCT/JP2003/011551

T. Dasis	of the report
1. With	regard to the elements of the international application:*
\boxtimes	the international application as originally filed
	the description:
	Dages
	pages, as originally filed, filed with the demand
	pages, filed with the letter of
	the claims:
	pages
	, as originally filed
	, as afficiency with any statement under Article 19
	, filed with the demand
	, filed with the letter of
Ш	the drawings:
	pages, as originally filed
	pages, filed with the demand
	pages, filed with the letter of
t	he sequence listing part of the description:
	pages, as originally filed
	pages, as diginally fried, filed with the demand
	pages, filed with the letter of,
These	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which iternational application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language
4.	The amendments have resulted in the cancellation of: the description, pages the claims, Nos the drawings, sheets/fig
	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
and 70	•
	placement sheet containing such amendments must be referred to under item 1 and annexed to this report.

NO

YES

NO

1-4, 7-13

1-13

v .	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
•	Novelty (N)	Claims	5, 6, 8-11, 13	YES			
		Claims	1-4, 7, 12	NO			
	Inventive step (IS)	. Claims	5, 6	YES			

Claims

Claims

· Claims

Citations and explanations

Industrial applicability (IA)

The invention set forth in claims 1 to 4, 7 and 12 lacks novelty in the light of document 1 (Microfilm of the specification and drawings annexed to the Japanese Utility Model Application No. 27492/1991 (Laid-open No. 123775/1992) (Fuji Kiko Co., Ltd.), 10 November 1992 (Family: none)).

Document 1 (particularly [fig. 3] and paragraph [0011], etc.) sets forth a vehicle steering telescopic shaft the same as the invention set forth in this application.

The invention set forth in claims 8 to 10 does not involve an inventive step in the light of document 1.

Determining the interval at which the "preloading sections" are disposed is a matter which would be determined as necessary by a person skilled in the art according to the shape of the "male shaft", etc.

The invention set forth in claim 11 does not involve an inventive step in the light of document 1.

Rolling elements comprising spherical bodies are merely a known feature in vehicle steering telescoping shafts (see, for example, JP 2001-50293 A (NACAM France SA), 23 February 2001 & EP 1065397 A & US 6343993 A, JP

2000-38142 A (Daimler Chrysler AG.), 8 February 2000 & DE 19824477 A, etc.).

The invention set forth in claim 13 does not involve an inventive step in the light of document 1 and document 2 (JP 11-311256 A (NSK Ltd.), 9 November 1999 (Family: none)).

Document 2 (paragraph [0032] and [fig. 3]) sets forth a feature wherein "the outer peripheral part of the male shaft" or the "inner peripheral part of the female shaft" are formed of a solid lubricating membrane.